

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: April 3, 1996

Date Received: March 28, 1996

Project: Metro Self Monitor, PO #M52780

Date Samples Extracted: March 29, 1996

Date Extracts Analyzed: April 1, 1996

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M52780	0.14	0.10	<0.05	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 67535 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.14	0.14	0	0-20
Copper	mg/L (ppm)	0.10	0.09	11a	0-20
Nickel	mg/L (ppm)	<0.05	<0.05	nm	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 67535 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.14	92	94	80-120	2
Copper	mg/L (ppm)	5	0.10	95	96	80-120	1
Nickel	mg/L (ppm)	10	<0.05	92	93	80-120	1
Zinc	mg/L (ppm)	5	<0.05	91	91	80-120	0

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS MSD		Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	96	95	80-120	1
Copper	mg/L (ppm)	5	99	97	80-120	2
Nickel	mg/L (ppm)	10	96	95	80-120	1
Zinc	mg/L (ppm)	5	93	92	80-120	1

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

ANJ #1
3.28.96
1120

SAMPLE CHAIN OF CUSTODY

Send Report To: Alaskan Copper Works Contact: GERALD Thompson
Company: 628 Hammond St
Address: Seattle WA 98134
City, State, Zip: Seattle WA 98134
Phone #: (206) 382-8379 Date: 3-28-96

SITE NO. PROJECT NAME PURCHASE ORDER #

7238

METRO Self Monitor

m 527-80

SAMPLES (signature)

PROJECT LOCATION

[Signature]

3200 6th Ave S

REMARKS

SAMPLE DISPOSAL INFORMATION



Dispose after 30 days



Return Samples



Call for Instructions

Sample #

Date/Time
Sampled

Type of
Sample

of
Jars

Lab
Sample #

Analyses
Requested

m 52780

3/28/96 12:45

H2O

1

67535

CR CU NI ZN

SIGNATURE

PRINT NAME

COMPANY

Date

Time

Relinquished by:

Received by:

Relinquished by:

Received by:

[Signature]
GERALD A. Thompson

A.C.W.

3/28/96

1:03pm

KURT JOHNSON

F&B I.

3/28/96

1:05pm

FORMS/COC

09/19/94

AKC-0012294

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

April 3, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on March 28, 1996 from your Metro Self Monitor, PO #M52780 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
FAX: 382-7335
ACU0403R.DOC